

Safety data sheet

according to 1907/2006/EC, Article 31


Printing date 18.05.2012

Revision: 18.05.2012

1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name:** SILKOLENE UNIV BRAKE/CLUTCH FLD
- **Article number:** 800164735
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use**
 - SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
 - SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
 - SU21 Consumer uses: Private households / general public / consumers
- **Application of the substance / the preparation** Lubricant
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
 - FUCHS LUBRICANTS (UK) PLC.
 - New Century Street
 - Hanley
 - Stoke-on-Trent, Staffordshire, ST1 5HU
 - UK
 - e-mail: product.safety@fuchs-oil.com
- **Further information obtainable from:** Product safety department.
- **Emergency telephone number:** Emergency telephone: (UK) 01782 203700

2 Hazards identification

- **Classification of the substance or mixture**
 - **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
 -  Xi; Irritant
 - R36: Irritating to eyes.
 - **Information concerning particular hazards for human and environment:**
 - The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
 - **Classification system:**
 - The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
-
- **Label elements**
 - **Labelling according to EU guidelines:**
 - The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
 - **Code letter and hazard designation of product:**
 - Xi Irritant
 - **Risk phrases:**
 - 36 Irritating to eyes.
 - **Safety phrases:**
 - 2 Keep out of the reach of children.
 - 23 Do not breathe vapour.
 - 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 - 46 If swallowed, seek medical advice immediately and show this container or label.
 - **Other hazards**
 - **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.

GB

(Contd. on page 2)

Safety data sheet

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Revision: 18.05.2012




Trade name: SILKOLENE UNIV BRAKE/CLUTCH FLD

(Contd. of page 1)

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

| | | | |
|------------------------------------|-------------------|--|---------|
| CAS: 143-22-6 EINECS: 205-592-6 | Butyl tri glycol |  Xi R41 | 10-25% |
| CAS: 111-46-6 EINECS: 203-872-2 | Diethylene glycol |  Xn R22 | 10-25% |
| CAS: 111-77-3 EINECS: 203-906-6 | Methyl di glycol |  Xn R63 Repr. Cat. 3 | 2.5-10% |

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- **Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- **After eye contact:**
Check for and remove any contact lenses.
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Seek immediate medical advice.
- **Information for doctor:** Treat symptomatically and supportively.
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
Obtain medical attention urgently, informing the emergency services that a product containing ethylene glycol/diethylene glycol has been ingested and that specific treatment is needed.
Gastric lavage may be effective when performed within 4 hours of ingestion.

5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Particular danger of slipping on leaked/spilled product.
- **Environmental precautions:**
Prevent from spreading (e.g. by damming-in or oil barriers).
Do not allow to penetrate the ground/soil.
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Send for recovery or disposal in suitable receptacles.

(Contd. on page 3)

Safety data sheet

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Revision: 18.05.2012

Trade name: SILKOLENE UNIV BRAKE/CLUTCH FLD

(Contd. of page 2)

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

· **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

· **Handling:**

· **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.

· **Information about fire - and explosion protection:** No special measures required.

· **Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** Prevent any seepage into the ground.

· **Information about storage in one common storage facility:** Store away from oxidizing agents.

· **Further information about storage conditions:** Keep container tightly sealed.

· **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

· **Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

111-46-6 Diethylene glycol

| | |
|-----|---|
| WEL | Long-term value: 101 mg/m ³ , 23 ppm |
|-----|---|

111-77-3 Methyl di glycol

| | |
|-----|--|
| WEL | Long-term value: 50.1 mg/m ³ , 10 ppm |
| Sk | |

· **Additional information:** The lists valid during the making were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

Select PPE appropriate for the operations taking place taking into account the product properties.

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Do not carry product impregnated cleaning cloths in trouser pockets.

Do not eat, drink, smoke or sniff while working.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 18.05.2012

Revision: 18.05.2012

Trade name: SILKOLENE UNIV BRAKE/CLUTCH FLD

(Contd. of page 3)

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **For the permanent contact gloves made of the following materials are suitable:**

Nitrile rubber, NBR

Neoprene gloves

- **Not suitable are gloves made of the following materials:**

Butyl rubber, BR

Natural rubber, NR

- **Eye protection:**



Tightly sealed goggles

- **Body protection:** Protective work clothing

9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

| | |
|-------------------------|-----------------|
| Form: | Fluid |
| Colour: | Colourless |
| Odour: | Mild |
| Odour threshold: | Not determined. |

- **pH-value at 20°C:** 7-10

- **Change in condition**

| | |
|-------------------------------------|---------------|
| Melting point/Melting range: | Undetermined. |
| Boiling point/Boiling range: | 245°C |

- **Flash point:** > 80°C

- **Flammability (solid, gaseous):** Not applicable.

- **Ignition temperature:** 203°C

- **Decomposition temperature:** Not determined.

- **Self-igniting:** Product is not selfigniting.

- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

- **Explosion limits:**

| | |
|---------------|------------|
| Lower: | 0.7 Vol % |
| Upper: | 22.0 Vol % |

- **Vapour pressure:** Not determined.

- **Density at 20°C:** 1.01 g/cm³

- **Relative density** Not determined.

- **Vapour density** Not determined.

- **Evaporation rate** Not determined.

(Contd. on page 5)

Safety data sheet

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Printing date 18.05.2012

Revision: 18.05.2012

Trade name: SILKOLENE UNIV BRAKE/CLUTCH FLD

(Contd. of page 4)

- | | |
|---|--|
| · Solubility in / Miscibility with water: | Fully miscible. |
| · Segregation coefficient (n-octanol/water): | Not determined. |
| · Viscosity: | |
| Dynamic: | Not determined. |
| Kinematic at 20°C: | 5-20 cSt (DIN 53211/4) |
| · Solvent content: | |
| Organic solvents: | 23.0 % |
| VOC (EC) | 23.00 % |
| · Other information | No further relevant information available. |

10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Strong oxidising agents.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

111-46-6 Diethylene glycol

| | | |
|--------|------|----------------------|
| Oral | LD50 | 12565 mg/kg (rat) |
| Dermal | LD50 | 11890 mg/kg (rabbit) |

111-77-3 Methyl di glycol

| | | |
|--------|------|---------------------|
| Oral | LD50 | 5500 mg/kg (rat) |
| Dermal | LD50 | 6540 mg/kg (rabbit) |

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Irritant

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** Easily biodegradable
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** Product is not expected to bioaccumulate.
- **Mobility in soil** No further relevant information available.

(Contd. on page 6)

Safety data sheet

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Revision: 18.05.2012

Trade name: SILKOLENE UNIV BRAKE/CLUTCH FLD

(Contd. of page 5)

- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**
Contact waste processors for recycling information.
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Used, degraded or contaminated product may be classified as hazardous waste. Anyone classifying hazardous waste and determining its fate must be qualified in accordance with state and international legislation.

| |
|-----------------------------------|
| · European waste catalogue |
|-----------------------------------|

| |
|------------------------------------|
| 13 01 11* synthetic hydraulic oils |
|------------------------------------|

- **Uncleaned packaging:**
- **Recommendation:**
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.
Disposal must be made according to official regulations.
EWC 15 01 02 or 15 01 04
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

14 Transport information

- | | |
|--|--|
| · UN-Number | Void |
| · ADR, ADN, IMDG, IATA | Void |
| · UN proper shipping name | Void |
| · ADR, ADN, IMDG, IATA | Void |
| · Transport hazard class(es) | Void |
| · ADR, ADN, IMDG, IATA | Void |
| · Class | Void |
| · Packing group | Void |
| · ADR, IMDG, IATA | Void |
| · Environmental hazards: | No |
| · Marine pollutant: | No |
| · Special precautions for user | Not applicable. |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable to packaged goods. |
| · Transport/Additional information: | Not dangerous according to the above specifications. |

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(Contd. on page 7)

Safety data sheet

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Revision: 18.05.2012

Trade name: SILKOLENE UNIV BRAKE/CLUTCH FLD

(Contd. of page 6)

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **National regulations:**

| Class | Share in % |
|-------|------------|
| I | 3.0 |
| NK | 20.0 |

· **Other regulations, limitations and prohibitive regulations**

· **Substances of very high concern (SVHC) according to REACH, Article 57** None

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

- The risk phrases shown below are for those component substances which are listed in section 3 and not for the actual finished formulation.

- Hazards are concentration dependent. Therefore for the hazard classification and risk/safety phrases appropriate for the actual finished formulated product refer to section 2.

R22 Harmful if swallowed.

R41 Risk of serious damage to eyes.

R63 Possible risk of harm to the unborn child.

· **Department issuing MSDS:** Product safety department.

· **Contact:** STEVEN PRITCHARD

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